

CLAIMS

1. (currently amended) A catalytic muffler comprising:

a housing having a first chamber, and a second chamber fluidly communicating through a catalyst bearing reactor bed interspersed therebetween; said reactor bed having a plurality of discrete flow passages extending longitudinally therethrough to provide fluid communication between said first and second chambers;

a first baffle assembly in said first chamber extending between [sad] said catalyst bed and said housing;

an inlet passage extending through said housing into said first chamber;

an outlet passage extending through said housing into one of said first chamber and said second chamber;

a second baffle assembly in said second chamber extending between said catalyst bed and said housing;

said first and second baffle assemblies acting in conjunction with said housing and said reactor bed to define a flow passage through said housing from said inlet passage [through at least three discrete zones of said reactor bed] to said outlet passage requiring at least three sequential passes through said reactor bed with each subsequent of said passes being through a discrete, laterally adjacent zone of said reactor bed and opposite in direction to an immediately preceding of said passes.

2. (original) A catalytic converter as claimed in Claim 1 wherein:

one of said inlet and said outlet passages extends through an end of said housing;

the other of said inlet and said outlet passages extends through a side of said housing.

3. (original) A catalytic converter as claimed in Claim 1 wherein:

said inlet and said outlet passages extend through a side of said housing.

4. (currently amended) A catalytic converter as claimed in Claim [2] 1 wherein:

said inlet and outlet passages extend through an end of said housing.

5. (original) A catalytic converter as claimed in Claims 2, 3 or 4 wherein:

said housing is cylindrical.

6. (original) A catalytic converter as claimed in Claims 2, 3 or 4 wherein:

said reactor bed includes an oxidizing catalyst in one part thereof and a reducing catalyst in another part thereof.

7. (currently amended) A catalytic converter as claimed in Claim 6 wherein:

said housing is cylindrical[.] said reactor bed is made up of sections with said oxidizing catalyst and said reducing catalyst being on different of said sections.

8. (currently amended) A catalytic converter as claimed in Claim 4 wherein:
said inlet passage extends into said first chamber;
said outlet passage extends [through] into said second [end of said housing]
chamber.
9. (currently amended) A catalytic muffler as claimed in Claim 8 wherein said
reactor bed includes an oxidizing [bed] catalyst as one part thereof and a reducing
[bed] catalyst in another part thereof.
10. (currently amended) A catalytic muffler as claimed in Claim 9 wherein:
said reducing [bed] catalyst is upstream of said oxidizing [bed] catalyst.
11. (original) A catalytic muffler as claimed in Claim 10 wherein:
said housing is cylindrical.
12. (currently amended) A catalytic muffler as claimed in Claim 6 wherein:
said reducing [bed] catalyst is upstream of said oxidizing [bed] catalyst.
13. (currently amended) A catalytic muffler as claimed in Claim 12 wherein:

said housing is cylindrical[.], said reactor bed is made up of sections with said oxidizing catalyst and said reducing catalyst being on different of said sections.

14. (original) A catalytic muffler as claimed in Claim 1 or 2 wherein:

said housing is cylindrical and defined by cup shaped first and second parts joined at respective outer edges; and,

said first and second baffle members act as spacers to locate said reactor bed within said housing.

15. (original) A catalytic muffler as claimed in Claim 1 or 2 wherein:

said housing is cylindrical and made up of cup shaped first and second parts, joined at respective outer edges to respective ends of a sleeve; and,

said first and second baffle assemblies act as spacers to located said reactor bed within said housing.